

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S20 6	542	703/8.cds.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 14:32

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Ref #	Hits	Search Query	DBs	Defult Operator	Plurals	Time Stamp
L1	298	genetic and (vibration same (damp\$3 or suppress\$4))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:10
L2	278	(vibration same (damp\$3 or suppress\$4)) and (vehicle or automobile) and (finite adj element)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:45

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- [Modelling and optimal placement of piezoelectric ...](#) - Sadri - Cited by 68
- [Optimal placement of piezoelectric sensors and ...](#) - Han - Cited by 81
- [Optimal design of robust vibration suppression ...](#) - Itoh - Cited by 9

Optimal Design of Robust Vibration Suppression Controller Using...

been verified by experiments using a prototype. Index Terms— -Synthesis, genetic algorithms (GAs), robust control, vibration suppression, I. I. NTRODUCTION ...
ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1339465 - Similar
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Welcome to IEEE Xplore 2.0: Optimal design of robust vibration ...

Oct 4, 2004 ... Optimal design of robust vibration suppression controller using genetic algorithms. Itoh, K. Iwasaki, M. Matsui, N. Dept. of Comput. Sci. ...
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Abstract; This paper presents an evolutionary algorithm for the robust vibration suppression controller design in mechatronics systems, using a Genetic ...
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遺伝的アルゴリズムによるロバスト制振補償器の自律設計 [in Japanese] Autonomous Design of Robust Vibration Suppression Compensator Using Genetic Algorithms ...
ci.nii.ac.jp/naid/110001372781/en - Similar

Optimization and vibration suppression of adaptive composite ...

Optimization and vibration suppression of adaptive composite panels using genetic algorithm and disturbance observer technique. [Proceedings of SPIE 5049, ...
link.aip.org/link/?PSIISDG/5049/381/1 - Similar
by S Yan - 2003 - Cited by 2 - Related articles

Integrated actuator/control design of smart pantograph mechanism ...

... of the PZT sensor and actuator in order to reduce the structural vibration. ... on genetic algorithm to improve the effect on the vibration suppression. ...

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by PB Nair - 2001 - Cited by 17 - Related articles - All 10 versions

Genetic and evolutionary computation—GECCO 2003: Genetic and ... - Google Books Result

by Erick Cantú-Paz - 2003 - Computers - 2520 pages
The cross-sectional dimension of the manipulator is tuned by **genetic** algorithms ...
dynamically between the rigid mode tracking and **vibration suppression**. ...
books.google.com/books?isbn=3540406034...

Optimum placement of piezoelectric ceramic modules for vibration ...
The **vibration suppression** efficiency of so-called shunted piezoelectric apply **genetic** algorithms to the problem of optimal actuators ...
www.iop.org/ej/article/0964-1726/16/5/019/sms7_5_019.pdf - Similar
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[CITATION] Locating actuators for **vibration suppression** on space trusses by **genetic algorithms**
H Furuya, RT Haftka - ASME-PUBLICATIONS-AD, 1993 - ASME

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Modelling and optimal placement of piezoelectric actuators in isotropic plates using genetic ...

AM Sadri, JR Wright, RJ Wynne - Smart materials and structures, 1999 - iop.org
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The controller for **vibration suppression** has been designed using the coupled ...
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Optimal design of robust vibration suppression controller using genetic algorithms

K Itoh, M Iwasaki, N Matsui - IEEE Transactions on Industrial Electronics, 2004 - ieeexplore.ieee.org
... verified by experiments using a prototype. Index Terms— Synthesis, genetic
algorithms (GAs), robust control, **vibration suppression** ...
Cited by 9 - Related articles - BL Direct - All 4 versions

Design of vibration suppression systems in space trusses using a genetic algorithm

J Bishop - AIAA/ASME/ASCE/AHS/ASC Structures, Structural ..., 1996 - csa.com
Design of vibration suppression systems in space trusses using a **genetic algorithm**.
J Bishop AIAA/ASME/ASCE/AHS/ASC Structures, Structural ...
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... **SUPPRESSION OF BEHAVIORAL MUTANTS** ... However, they all map to the same genetic region
(see Table 1 ... This consisted of **vibrating** flies in culture vials (one to five ...
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Vibration suppression in a two-mass drive system using PI speed controller and additional ...

K Szabat, T Orłowska-Kowalska - IEEE Transactions on Industrial Electronics, 2007 - ieeexplore.ieee.org
... In [18], the **genetic algorithms** were applied to ensure the optimal setting of ... SZABAT
AND ORŁOWSKA-KOWALSKA: **VIBRATION SUPPRESSION IN TWO-MASS DRIVE SYSTEM** 1195 ...
Cited by 21 - Related articles - BL Direct

Passive vibration suppression of flexible space structures via optimal geometric redesign-

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PB Nair, AJ Keane - AIAA journal, 2001 - pdf.aiaa.org
... any optimization techniques such as **genetic** algorithms (GAs ... design optimization of
large exible space structures for **vibration suppression**. A methodology proposed ...

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[CITATION] ... of **vibration suppression** system in space trusses using a **genetic** algorithm. In?, editor

JA Bishop, AG Striz - Proceedings of the 1996 37th AIAA/ASME/ASCE/AHS/ASC ...

Cited by 5 - Related articles

Genetic approach to optimal topology/controller design of adaptive structures

X Liu, DW Begg, RJ Fishwick - International Journal for Numerical Methods in ..., 1998 - interscience.wiley.com

... **GENETIC APPROACH TO OPTIMAL TOPOLOGY/CONTROLLER DESIGN** 827 ... vibration suppression ... as the dissipation of system energy $\propto 2\alpha dt$ implies the reduction of vibration. ...

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MT Simpson, CH Hansen - Noise Control Engineering Journal, 1996 - [Poughkeepsie, NY: Institute of Noise Control Engineering, ...]

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Vibration-based damage detection of structures by genetic algorithm

Y Xia - Journal of computing in civil engineering, 2002 - link.aip.org

... **Vibration-based Damage Detection of Structures by Genetic Algorithm**. [Journal of Computing in Civil Engineering 16, 222 (2002)]. Hong Hao M.ASCE, Yong Xia. ...

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Damage detection in vibrating bodies using genetic algorithms

MA Rao, J Srinivas, BSN Murthy - Computers and Structures, 2004 - Elsevier

... related minimization problems on residual vectors, solved by **genetic** algorithms, show ... method for the identification of damage from **vibration** characteristics of ...

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Y Hotta, S Benzer - Proceedings of the National Academy of Sciences, 1976 - National Acad Sciences

... (sexual behavior/fate mapping/gynandromorphs/behavioral genetics) ... Male performance of following females and displaying wing **vibration** toward them requires that ...

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[algorithm ...](#)

AJ Keane, SM Brown - Proceedings of the Conference on Adaptive Computing ... - Citeseer
... THE DESIGN OF A SATELLITE BOOM WITH ENHANCED VIBRATION PERFORMANCE USING
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[**Genetic training of network using chaos concept: application to QSAR studies of vibration ...**](#)

Q Lu, G Shen, R Yu - Journal of Computational Chemistry, 2002 - interscience.wiley.com

... Genetic training of network using chaos concept: Application to QSAR studies

of vibration modes of tetrahedral halides. Qingzhang ...

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... loop frequency response of the plate for active vibration control studies with optimal

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[CITATION] Locating actuators for **vibration suppression** on space trusses by **genetic algorithms**
H Furuya, RT Haftka - ASME-PUBLICATIONS-AD, 1993 - ASME
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large flexible space structures for **vibration suppression**. A methodology proposed ...
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algorithms, optimization, robust control, **vibration suppression** ...

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Design of fuzzy controller for smart structures using genetic algorithms- ► tamu.edu [PDF]

Q Lu, Z Peng, F Chu, J Huang - Smart Materials and Structures, 2003 - iop.org
... system were always decided subjectively, and presented a **genetic based learning** ... To achieve the **vibration suppression** better, we need pay more attention to the ...

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Closed-loop pole design for vibration suppression

M Papadopoulos, E Garcia - Journal of Guidance, Control, and Dynamics, 1997 - pdf.aiaa.org
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... of actuators successfully obtained using **genetic** algorithms. ... **Vibration** suppression of space structures is very important ... used and the absence of air **damping**. ...

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V Steffen Jr, DA Rade, DJ Inman - Journal of the Brazilian Society of Mechanical Sciences, 2000 - SciELO Brasil ... CR et al., 1995, "A **Genetic** Algorithm for ... CD, 1995, "Design of Passive Damping Systems", Journal of Mechanical Design and Journal of **Vibration** and Acoustics ...

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ICRATION ... of High-Damping Rubber Dampers for **Vibration** Control of Tall Buildings Using **Genetic** ...

O Furuya, H Hamazaki, S Fujita - ASME-PUBLICATIONS-PVP, 1995 - ASME

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H Furuya, RT Haftka - Journal of Spacecraft and Rockets, 1996 - pdf.aiaa.org

... procedure reduces the cost of the **genetic** optimization by ... of energy associated with the *i*th **vibration** mode ... HE location of active or passive **damping** elements on ...

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[Optimal structural damping of skis using a **genetic** algorithm](#)

JL Marcellin, P Trompette, R Dornberger - Structural and Multidisciplinary Optimization, 1995 - Springer

... 44, 96-102 Marcellin, J.-L.; Trompette, P. 1994: Optimal location of plate damped parts by use of a **genetic** algorithm. Shock and **Vibration** 1, 541-547 Marcellin, 8 ...

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[Neural network design with **genetic** learning for control of a single link flexible manipulator](#)

S Jain, PY Peng, A Tzes, F Khorrami - Journal of Intelligent and Robotic Systems, 1996 - Springer

... algorithms. Key words. Neural network control, **genetic** learning, flexible-link manipulators, **vibration damping**. 1. Introduction ...

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Genetic algorithms applied to fuzzy sliding mode controller design- ► psu.edu [PDF]

KC Ng, Y Li, DJ Murray-Smith, KC Sharman - **Genetic Algorithms in Engineering Systems: Innovations ...**, 1995 - ieeexplore.ieee.org

... imprecision and external disturbances while the KC provides better damping and reduced ...

This paper develops **genetic algorithms (GAS)** for the automatic design of ...

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Vibration-based damage detection of structures by genetic algorithm

Y Xia - Journal of computing in civil engineering, 2002 - link.aip.org

... the damaged elements can be detected by **genetic algorithm**, even ... on the fact that

the vibration characteristics of ... mode shapes, and modal damping) are functions ...

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V Steffen Jr, DA Rade, DJ Inman - Journal of the Brazilian Society of Mechanical Sciences, 2000 - SciELO Brasil ... Houch, CR et al., 1995, "A Genetic Algorithm for ... Johnson, CD, 1995, "Design of Passive Damping Systems", Journal ... Design and Journal of Vibration and Acoustics ...

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Passive vibration control via unusual geometries: experiments on model aerospace ...

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AJ Keane, AP Bright - Journal of Sound and Vibration, 1996 - Elsevier

... because of the lack of atmospheric **damping** and the ... 3] which were used to form the vibration control problem ... manipulation of this model by **Genetic Algorithms** [4 ...

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Passive vibration control of a satellite boom structure by geometric optimization using ...

► soton.ac.uk [PDF]

M Mostafaei-Torbat, AJ Keane, SJ Elliott, MJ ... - Journal of Sound and Vibration, 2003 - Elsevier

... flow analysis models combined with **genetic algorithm** (GA) ... in all fields where reduced vibration transmission is ... of the structural viscous **damping** coefficient has ...

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An active microvibration isolation system for hi-tech manufacturing facilities

HYV Scholar, Y Takahashi, K Katayama, T ... - Journal of Vibration and Acoustics, 2001 - link.aip.org

... **Vibration was damped** even within a time scale of around 0.1 sec. ... 6 Improvement of the Control Performance Using **Genetic Algorithm**. ...

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... **Vibration control** is a major design problem for skis. ... materials in order to maximize a modal **damping factor** ... It is shown here how **genetic algorithms** offer a new ...

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[CITATION] Optimization of sandwich/multilayer viscoelastic composite structure for vibration damping

MA Trindade - Proceedings of OMAE, 2001

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J Bishop - AIAA/ASME/ASCE/AHS/ASC Structures, Structural ..., 1996 - csa.com
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some system for damping the resulting ... A genetic algorithm is used in each case ...
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X Lei, NA Noda - *Journal of Sound and Vibration*, 2002 - Elsevier
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[Component mode synthesis of a vehicle structural-acoustic system model](#)

SH Sung, DJ Nefske - *AIAA journal*, 1986 - pdf.aiaa.org
... To complete the model, damping of the vehicle body modes and compartment ... structural modal damping was inferred from the measured vibration response of a ...
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... All the dofs associated with the car body within each substructure ... The vibration modes $X_M G(x)$ are Fourier sine series for a ... vehicle damping ratio, $T^*c/2m T$; ...
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